SWAN.

A NEW ALMANACK

For the year of our LORD GOD 1681.

Being the first after Bissextile or Leap-year, and from the Creation of the World at the Spring 5684 years compleat.

Wherein is shewed the principal Aspects of the Planets, a Table of Annuities and Reversions, the Terms both at *London* and *Cambridge*, with other things of note in the University.

Calculated properly for the famous University and Town of *Cambridge*, where the Pole is elevated 52 Deg. and 17 min. above the Horizon.

Dixit autem Deus, fiant Luminaria in Firmamento Cœli, & dividant Diem ac Noctem: & sint in Signa, & tempora, & Dies, & Annos, Gen. 1. 14.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the University. 1681.

A Table of the Terms with their Returns.

Hilary Term begins January 24, ends February 12.

Return days, or days of essoin.	Days of Exception	Returna Brevium.	Days of Appeara.
Octa. Hilar. Jan. 20	Jan. 21	Jan. 22	Jan. 23
Quind. Hilar. Jan, 27	Jan. 28	Jan. 29	Jan. 31
Craft. Purif. Feb. 3	Feb. 4	Feb. 5	Feb. 7
Octab. Purif. Feb. 10	Feb. 10	Feb. 1	Feb. 12

Easter Term begins April 20, ends May 16.

Quind. Pasch. Apr. 18	April 19	April 20	Apr. 21
Tres Pasch. April 26	April 26	April 27	April 28
Mens. Pasch. May 2	May 3	May 4	May 5
Quinq. Pasch. May 9	May 10	May 11	May 13
Craft. Ascen. May 13	May 14	May 16	May 16

Trinity Term begins June 3, ends June 22.

Craft. Trin. May 30	May 31	June 1	June 2
Octab. Trin. June 6	June 7	June 8	June 9
Quind. Trin. June 13	June 14	June 15	June 16
Tres Trin. June 20	June 20	June 21	June 22

Michaelmas Term begins Octob. 24 ends Novemb. 28.

Tres Mich. Octob. 20	Octob. 21	Octob. 22	Octob. 24
Mens. Mich. Octob. 27	Octob. 29	Octob. 31	Octob. 31
Craft. anim. Novem. 3	Novem. 4	Novemb. 5	Novemb. 6
Craft. Mart. Nov. 12	Nov. 14	Novemb. 15	Novem. 16
Octab. Mart. Nov. 18	Nov. 19	Novemb. 21	Novem. 22
Quind. Mart. Nov. 25	Nov. 26	Novemb. 28	Novem. 28

The

The Table of the Terms explained.

FIrſt you are to know that every Return hath a Baſis or known day, from whence it takes its denomination.

Craſtino is the morrow after the Baſis, or day nominated, as Craſtino Trinitatis is the morrow after Trinity Sunday, which is the Baſis or day that gives the denomination: Octabis is 8 days after Incluſively; Quind. is 15 days after; Tres that day, 3 weeks; Menſe that day moneth; and Quinq. that day 5 weeks.

Now every one of theſe Returns hath 4 ſeveral days whereof they conſiſt, the firſt whereof hath a double ſignification; the one is the day of Return, and the other the day of Eſſoyn for the Defendant in a perſonal Action, or the Tenant in a reall Action, to be Eſſoyn'd: the ſecond is the day of exceptions, for the Plaintiff, or Defendant to lay an exception, if no Eſſoyn be caſt, that the Defendant ſhall not be Eſſoyn'd or Amerced: The third is Returna Brevium that is, the day whereon the Sheriff muſt return the Writ: And the fourth is the day of Appearance for Parties and Jurors in the Court of Common Pleas.

But when any of theſe days fall upon Aſcenſion day, Midſummer day, All Saints day, or the Feaſt of the Purification, or any other Saints day, or Sunday, the next day ſerves for both; as if the Eſſoyn day fall upon a Sunday, then Munday muſt ſerve for that, and for the day of Exception both, as you may find by the foregoing Table.

A Rule to find the Epact which is the Age of the Moon the 28 *of February.*

When the Golden number is 3, 6, 9, 12, 15, or 18. The Epact is the ſame.

When the Golden Nu. is	1	2	4	5	7	8	10	11	13	14	16	17	19
The Epact is	11	22	14	25	17	28	20	1	23	4	26	7	29

A Table of Annuities and Reversions.

What 1 pound to be paid any number of years hence, under 31, is worth in ready money.				What 1lb Annuity to continue any time under 31 years is worth in ready money at *6 per cent.*				What 1 pound will amount to at any time under 21 years reckoning interest upon interest.			
	sh.	d.	q.	lb.	sh.	d.	q.	lb.	sh.	d.	q.
1	18	10	2	0	18	10	2	1	1	2	2
2	17	9	2	1	16	8	0	1	2	5	2
3	16	9	2	2	13	5	2	1	3	9	3
4	15	10	0	3	9	3	2	1	5	3	0
5	14	11	1	4	4	3	0	1	6	9	0
6	14	1	1	4	18	4	1	1	8	4	2
7	13	3	2	5	11	7	3	1	10	0	3
8	12	6	2	6	4	2	1	1	11	10	2
9	11	10	0	6	16	0	1	1	13	9	2
10	11	2	0	7	7	2	1	1	15	9	3
11	10	6	2	7	17	8	3	1	17	11	2
12	9	11	1	8	7	8	0	2	0	3	0
13	9	4	2	8	17	0	2	2	2	7	3
14	8	10	0	9	5	10	3	2	5	2	2
15	8	4	0	9	14	3	0	2	7	11	1
16	7	10	2	10	2	1	2	2	10	9	2
17	7	5	0	10	9	6	2	2	13	10	2
18	7	0	0	11	16	6	2	3	17	1	0
19	6	7	1	11	3	2	0	3	0	6	0
20	6	2	3	11	9	4	3	3	4	1	3
21	5	10	2	11	15	3	1	3	7	11	3
22	5	6	2	12	0	10	0				
23	5	2	3	12	6	0	3				
24	4	11	1	12	11	0	0				
25	4	7	2	12	15	8	0				
26	4	4	3	13	0	0	3				
27	4	1	3	13	4	2	2				
28	3	11	0	13	8	1	3				
29	3	9	1	13	11	9	2				
30	3	5	3	13	15	3	2				

By this Table you may readily find the increase of any other summ for such a number of years: for if 1l come to so much then such suppose 5lb will come to 5 times as much &c.

The Explanation of the foregoing Tables.

THe firſt conſiſts of 2 Columns, the ſecond of one, and the third of one as you may ſee.

The firſt column on the left hand contains the number of years from 1 to 30, the ſecond the value of one pound to be paid ſuch a number of years within 1 and 30 ſtanding right againſt the years you ſeek for, as for example, what is one pound to be paid 20 years hence worth in ready money look for 20 in the firſt column under the title of years and right againſt it in the ſecond you will find 6 ſhill. 2 pence 3 farth. the value of one pound in ready money, thus you may do with any ſumm of money, as ſuppoſe 5 lb which 20 years hence is worth but 5 times 6 ſhill. 2 pence 3 farth. in ready money which is but 1 pound 11 ſhill. 1 peny 3 farthings in ready money, and ſo for any other ſumm.

The ſecond Table being but one column ſhews what one pound continuing ſuch a term of years is worth in ready mony, as for example, ſuppoſe 20 years, 1 pound at 20 years end is worth 13 lb 9 ſhill. 4 pence 3 farth. which you will find right againſt 20 years under his proper title in this column or Table, ſo you may do for any other ſumm, as ſuppoſe 5 lb which will be 5 times ſo much and therefore multiply by 5 or add the ſumm ſo many times together and you ſhall have the value of any yearly rent or revenue to continue ſuch a term of years as is contained in the Table.

The third Table being but one Column ſhews what 1 lb will amount to at any time under 21 years, as ſuppoſe 20 years: look for 20 years under the title of years and right againſt it in this Table you will find 3 lb 4 ſh. 1 d 3 q ſo much will 1 lb amount to in 20 years reckoning intereſt upon intereſt, thus knowing what 1 lb will amount to for ſo many years you may eaſily know what 5 lb 10 lb 20 lb or any ſumm whatſoever by ſaying 5 times ſo much or 10 times or the like.

Of Rebate.

MAny making no difference between intereſt and rebate I think it convenient to advertiſe my Reader concerning it, for rebate then this is the rule, look for the intereſt of the ſumm whole rebate you deſire and add it to the principal, as ſuppoſe the rebate of 100 lb for a year add 6 lb the intereſt of 100 lb for a year to 100 lb & the ſumm will be 106 lb which muſt be the firſt term in the Rule of three thus as 106 to 100 ſo 100 to 100 related to that you muſt rebate 5 lb 13 ſhill. and ſome more cut of the 100, thus may you do for any other ſumm.

The vulgar Notes and Moveable Feasts in both Accounts for this Year 1681.

Julian or *English.*			*Gregorian* or Forreign.	
	10	The Golden Number	10	
	10	The Cycle of the Sun	10	
	20	The Epact	10	
	E	The Dominical Letter	E	
Feb.	13	Shrove-sunday	Febr.	16
April	3	Easter-day	April	6
May	12	Ascension-day	May	15
May	22	Whit-sunday	May	25
May	29	Trinity-sunday	June	1
Novemb	27	Advent-sunday	Novemb	30

Some Observations about Gold, Silver, and other Mettals.

			Of Gold. lb.	sh.	d.	q.	*Of Silver.* lb.	sh.	d.	q.
One	Pound weight	*Troy* is worth	40	0	0	0	3	0	0	0
	Ounce		3	6	8	0	0	5	0	0
	Peny weight		0	3	4	0	0	0	3	0
	Grain		0	0	1	2	0	0	0	1/2

This is the price of ordinary Gold. Angel-Gold is worth somewhat more, and Sovereign-Goln somewhat less: but of *English* Coin

		lb.	sh.	d.	q.		lb	sh.	d.	q.
Of Gol.	One pound *Troy*	40	18	4	3	Of *Aver de poi*	49	13	8	1
Of Sil.	weight is worth	3	2	0	0	1 lb is worth	3	15	3	2

By this account 100 lb of Silver money weighs 26 lb 9 ounces *Avoir de poi*, and an 100 lb in Gold weighs 2 pounds and about a quarter of an ounce over, *Avoir de poi.*

As Gold is more worth, so it is more weighty than any other Mettal, so that if you should cast 7 bullets of a like magnitude of these several Met. their weights will have this proportion one to another.

Gold	10000.	Lead	6053	Brass	4730	Tinn	3895
Quick-Silver	7143	Silver	5437	Iron	4210		

So that at 10000, to 5437, so is the weight of Gold to the weight of Silver, and that is heavier by about an half, and so for the rest.

The

The Scarlet days in the Univerſity of *Cambridge*, are as followeth.

All Saints, Chriſtmas, Eaſter, Aſcenſion, Whitſunday, Trinity-ſunday, Commencement, and the 29 of May; And the two Fairs proclaiming in June and September, The Feaſt of Saint Michael, and the 5 of November,

To Lectures, Clerums and Supplications,
All Doctors are to Congregations;

That is in their Robes.

MArriage comes in on the 13 day of January, and at Septuageſima Sunday it is out again until Lowſunday; at which time it comes in again, & goes not out till Rogation-ſunday: thence it is forbidden until Trinity-ſunday: from whence it is unforbidden till Advent-ſunday: but then it goes out, and comes not in again till the 13 day of January next following.

The Names, and Characters of the 12 Signs, with the parts of mans Body which they are ſaid to govern.

♈ Aries head and Face	♎ Libra Reins & Loyns
♉ Taurus neck and Throat	♏ Scorpio Secret members.
♊ Gemini Arms & Shoul.	♐ Sagitarius the Thighs.
♋ Cancer Breaſt & Stom.	♑ Capricornus the Knees
♌ Leo Heart and Back	♒ Aquarius the Legs.
♍ Virgo Bowels and Belly	♓ Piſces the Feet.

Last quarter 1 day, 34 min. past 3 afternoon
New moon 9 day. 53 min. past 7 at night.
First quarter 17 day, 29 min. past 4 in the morning
Full moon 23 day, 7 min. past 10 at night
Last quart. 31 day, 20 min. past noon.

										Sun-rising.		Sun-setting.	
1	a	Circumcision	22	5	20	♎	24	8		4	3	56
2	b	2 sun. aft. Chr.	23	6	2	♏	27	8		3	3	57
3	c	Oct. John	24	8	14		21	8		2	3	58
4	d	Octab. Innoc.	25	9	26		8	8		0	4	0
5	e	Edward	26	10	8	♐	1	7	59	4		1
6	f	Epiphany	27	11	19		48	7	58	4		2
7	g	Cedwald	28	12	1	♑	30	7	57	4		3
8	a	William b. T.	29	14	14		1	7	55	4		5
9	b	1 aft. Epiph.	0	♒15	26		22	7	54	4		6
10	c	Paul Herm.	1	16	8	♒	57	7	52	4		8
11	d	Hyginius	2	17	21		45	7	51	4		9
12	e	Arcadius	3	18	4	♓	46	7	50	4		10
13	f	Hillary Bish.	4	19	17		54	7	48	4		12
14	g	Felicia	5	20	1	♈	17	7	47	4		13
15	a	Mauritius	6	21	14		47	7	46	4		14
16	b	2 aft. Epiph.	7	22	28		32	7	45	4		15
17	c	Anthony	8	23	12	♉	26	7	44	4		16
18	d	Prisca	9	24	26		33	7	42	4		18
19	e	Wolstan	10	25	10	♊	49	7	40	4		20
20	f	Octab. Hill.	11	26	25		18	7	38	4		22
21	g	Agnes Virg.	12	27	9	♋	51	7	36	4		24
22	a	Vincent	13	28	24		23	7	34	4		26
23	b	3 aft. Epiph.	14	29	8	♌	46	7	32	4		28
24	c	Term begins	15	30	22		56	7	30	4		30
25	d	Conv. S. Paul	16	30	6	♍	47	7	28	4		32
26	e	Polycarp	17	31	20		18	7	26	4		34
27	f	Quind. Hil.	18	32	3	♎	23	7	24	4		36
28	g	Carolus mag.	19	33	15		55	7	22	4		38
29	a	Gildas Ab. b.	20	33	28		26	7	20	4		40
30	b	K. C. I. Mart.	21	34	10	♏	31	7	18	4		42
31	c	Adaman	22	35	22		25	7	16	4		44

See how the *Ægyptian* Emblem ſhews it plain
That the Year once ended, ſoon begins again,
Whoſe hard crusted froſts, and more rigid cold,
The fruitfull ſeeds o'th' Earth yet captive hold:
Yet e're long we hope to ſee a releaſe,
Now *Phœbus* doth our gloomy days encreaſe.

January 1681.

Sharp froſty weather at the beginning but ſoon abates, about the middle windy, clear, and temperate, towards the end much rain or ſnow but not very cold.

1	11		
2	12		
3	13	△ ♂ ☉ 7. m.	
4	14		
5	15	☽ Apogæon.	
6	16	☿ Stat. ad di.	
7	17		
8	18	☿ Elong. à ☉	
9	19		
10	20		
11	21		
12	22	▨ ♑ ♀ 7. m.	
13	23	☽ cum ♍.	*Cambridge* Term begins the 13 day.
14	24	♂ Stat. ad ℞	
15	25	△ ♑ ☉.	
16	26		
17	27		
18	28		
19	29		
20	30		
21	31	△ ♄ ♀ 0. m.	☽ Perigæon.
22	1	♂ ♄ ☿ 10 p.	February Roman account.
23	2		
24	3		
25	4	♑ Stat. ad dir.	
26	5	♂♂ ♀ 9. m.	☽ cum ♌.
27	6	△ ♂ ☿.	
28	7		
29	8		
30	9		
31	10		

February hath xxviii days.

New moon 8 day, 2 min. after noon
First quarter 15 day, 23 min. past noon
Full moon 22 day, 17 min. past 11 beforenoon.

M.D.	W.L.	Festival days with terms.	Suns place		Moons place.		Sun rising.		Sun setting.	
1	d	Ignatius fa.	23	35	4 ♐	15	7	14	4	46
2	e	Purif. B. Mary	24	36	15	1	7	12	4	48
3	f	Craft. Purif.	25	37	27	52	7	10	4	50
4	g	Gilbert	26	37	9 ♑	54	7	8	4	52
5	a	Agatha M.	27	38	22	7	7	6	4	54
6	b	Sexageſima	28	38	4 ♒	41	7	4	4	56
7	c	Rumwald	29	39	17	3	7	2	4	58
8	d	Sun in Piſces	0 ♓	3	0 ♓	38	7	0	5	0
9	e	Apollonia	1	40	14	1	6	58	5	2
10	f	Octab. Purif.	2	40	27	40	6	56	5	4
11	g	Euphroſina	3	40	11 ♈	27	6	54	5	6
12	a	Term ends	4	41	25	22	6	52	5	8
13	b	Shrove Sund.	5	41	9 ♉	23	6	50	5	10
14	c	Valentine	6	41	24	27	6	48	5	12
15	d	Shrove-tueſd.	7	42	7 ♊	31	6	46	5	14
16	e	Aſhwedneſd.	8	42	21	36	6	44	5	16
17	f	Fina	9	42	5 ♋	41	6	42	5	18
18	g	Simeon	10	42	19	44	6	40	5	20
19	a	Acca	11	42	3 ♌	46	6	38	5	22
20	b	1 Sun. in Lent	12	42	17	44	6	36	5	24
21	c	Kimbert	13	42	1 ♍	46	6	34	5	26
22	d	Cathedr. Pet.	14	42	15	2	6	32	5	28
23	e	Ember week	15	42	28	21	6	30	5	30
24	f	S. Matthias	16	42	11 ♎	13	6	28	5	32
25	g	Johannes	17	42	23	57	6	26	5	34
26	a	Alexander	18	42	6 ♏	13	6	24	5	36
27	b	2 Sun. in lent	19	42	18	29	6	22	5	38
28	c	Oſwald Biſh.	20	42	0 ♐	20	6	20	5	40

Now *Hyem* doth his silver treasures waste,
And brave *Phœbus* with warmer steeds doth haste,
To dispell those legions, which do hold
Back the Spring, with shivering fits of cold,
Whose repulses we may yet often fear,
E're th' tender Plants with flowry tops appear.

En. ac.	Ro. ac.	Planets aspects	The Inclination of the air.
1	11		
2	12		**February 1681.**
3	13	△ ☿ ☿ 4 p.	
4	14	☽ Apogæon	The month begins temperate
5	15	✶ ☿ ♀ 6 p.	with snow, soon after colder
6	16		with snow or rain, about the
7	17		middle; and high winds toward
8	18	☽ ♉	the end, but indifferently warm
9	19		about the full Moon.
10	20		
11	21		
12	22		
13	23	▨ ♄ ♀ 18 p.	
14	24		
15	25		
16	26	☽ Perigæon	
17	27		Commencement for Batchelours
18	28		in Arts the 17 day.
19	1		March Roman account.
20	2		
21	3		
22	4	▨ ☿ ☿ 6 m.	
23	5		
24	6		
25	7		
26	8		
27	9		
28	10		

March hath xxxi days.

Laſt quarter 2 day, 47 min. paſt 9 in the morning
New moon 10 day, 44 min. paſt 12 in the morning
Firſt quarter 16 day, 46 min. paſt 6 at night
Full moon 24 day, 25 min. paſt 1 in the morning.

								Sun-riſing.		Sun-ſetting.	
1	D	David biſh.	21	41	12 ♐	7	6	18	5	42
2	E	Chad Biſh.	22	41	23	54	6	16	5	44
3	F	Lucius	23	41	5 ♑	45	6	14	5	46
4	G	wenlock Ab.	24	40	17	46	6	12	5	48
5	A	wilgite	25	40	0 ♒	3	6	10	5	50
6	B	3 Sun. in lent	26	40	12	3	6	8	5	52
7	C	Aquinas	27	39	25	34	6	6	5	54
8	D	Perpetua	28	39	8 ♓	54	6	4	5	56
9	E	Franciſca	29	38	22	36	6	2	5	58
10	F	Sun in Aries	0 ♈	38	6 ♈	37	6	0	6	0
11	G	Oſwin	1	37	20	51	5	58	5	2
12	A	Gregory	2	36	5 ♉	16	5	56	5	4
13	B	Midlent Sund.	3	36	19	44	5	54	6	6
14	C	Teonulph	4	35	4 ♊	7	5	52	5	8
15	D	Ariſtobulus	5	34	18	22	5	50	5	10
16	E	Wirede Ab.	6	33	2 ♋	32	5	48	6	12
17	F	Patrick	7	33	16	30	5	46	6	14
18	G	Edward K.	8	32	0 ♌	19	5	44	6	16
19	A	Joſeph	9	31	13	57	5	42	5	18
20	B	5 Sun. in lent	10	30	27	31	5	40	6	20
21	C	Benedict	11	29	10 ♍	46	5	38	5	22
22	D	Aphrodiſius	12	28	23	56	5	36	6	24
23	E	Egbert K.	13	27	6 ♎	52	5	34	6	26
24	F	Lanfranck f.	14	26	19	37	5	32	5	28
25	G	Annunciation	15	25	2 ♏	8	5	30	5	30
26	A	William Nor.	16	24	14	22	5	28	5	32
27	B	Palm Sunday	17	23	26	26	5	26	5	34
28	C	Fremund	18	22	8 ♐	20	5	24	5	36
29	D	Waldred	19	20	20	10	5	22	6	38
30	E	Patrone	20	19	1 ♑	56	5	20	6	40
31	F	Adelme	21	18	13	48	5	18	6	42

The glowing Sun now with's radiant beam,
Looks o're the confines of the *Artick* ſtream,
And there begins the morn of a lightſom day,
Which ſix months time in mournfull darkneſs lay.
The graſs now would ſprout, unleſs *Eurus* wind
To kind *Floras* tender fruits prove unkind.

March 1681.

1	11	☽ Apogæon	
2	12		
3	13	☌ ☉ ☿ 9 p.	
4	14		
5	15	△ ♂ ♀ 10 p.	
6	16		
7	17		
8	18	☽ ♉	
9	19		
10	20		
11	21		
12	22	✶ ♃ ☿ 1 a.	
13	23		
14	24		
15	25	▨ ♄ ☿ 5 a.	
16	26		
17	27		
18	28		
19	29		
20	30	✶ ☉ ♆ 7 p.	
21	31	☽ ♌	
22	1		
23	2		
24	3		
25	4		
26	5	▨ ♄ ☉ ☌.	
27	6		
28	7	△ ♂ ☿ 9 a.	
29	8	□ ♂ ♀.	
30	9		
31	10		

Showry mild weather at the beginning, about the new Moon boiſterous and dry, at the full more moiſt but turbulent and cloudy.

The latter Act the 17 day.

April Roman account.

April hath xxx days.

Laſt quarter 1 day, 16 min. paſt 6 in the morning
New moon 8 day, 4 min. paſt 11 beforenoon
Firſt quarter 15 day, 25 min. paſt 1 in the morning
Full moon 22 day, 30 min. paſt 4 in the morning
Laſt quarter 30 day, 35 min. paſt 7 at night.

								Sun-riſing.		Sun-ſetting.	
1	g	Good-friday	22	16	25 ♍	48	5	16	6	44
2	a	Francis faſt	23	15	8 ♒	1	5	14	6	46
3	b	Eaſter day	24	13	20	33	5	12	6	48
4	c	Guire	25	12	3 ♓	30	5	10	6	50
5	d	Vincent	26	10	16	54	5	8	6	52
6	e	Ethelwold	27	9	0 ♈	41	5	6	6	54
7	f	Sigine	28	7	14	58	5	4	6	56
8	g	Egeſippus	29	6	20	30	5	2	6	58
9	a	Sun in Taurus	0 ♉	4	14 ♉	18	5	0	7	0
10	b	Low Sunday	1	2	29	11	4	58	7	2
11	c	Leo Pope	2	1	14 ♊	1	4	56	7	4
12	d	Hugh biſh.	2	59	28	41	4	54	7	6
13	e	Juſtin	3	57	13 ♋	13	4	52	7	8
14	f	Tiburtius	4	55	27	7	4	50	7	10
15	g	Oſwald	5	53	10 ♌	54	4	48	7	12
16	a	Tranſ. Alban	6	52	24	24	4	46	7	14
17	b	2 ſun. af. Eaſt.	7	50	7 ♍	37	4	45	7	15
18	c	Quind. Paſch.	8	48	20	35	4	43	7	17
19	d	Elphege	9	46	3 ♎	22	4	41	7	19
20	e	Term begins	10	44	15	49	4	39	7	21
21	f	Anſelme	11	42	28	25	4	38	7	22
22	g	Soter & Ca.	12	40	19 ♏	41	4	36	7	24
23	a	S. GEORGE	13	38	22	48	4	34	7	26
24	b	3 ſun. af. Eaſt.	14	36	4 ♐	47	4	33	7	27
25	c	S. Mark Evan.	15	34	16	40	4	31	7	29
26	d	Tres Paſch.	16	31	28	31	4	30	7	30
27	e	walburge	17	29	10 ♑	20	4	28	7	32
28	f	Vitalis	18	27	22	13	4	26	7	34
29	g	Peter Mart.	19	25	4 ♒	12	4	25	7	35
30	a	Erkenwald	20	23	16	26	4	23	7	37

Now Natures face doth ſmile, the fields aray
Themſelves with embroyderies rich and gay,
Corn revives and ſhooteth up, the warm rain
Makes trees and herbs ſprout forth & ſpring amain:
Thus th' earthy Vegetables do depend
On thoſe rich treaſures which the Heavens ſpend.

April 1681.

Mild gentle ſhowry weather at the beginning, but very unconſtant, toward the middle windy and dry, but moiſt towards the end.

Cambridge Term begins the 13 day.

May Roman account.

1	11	
2	12	
3	13	
4	14	
5	15	☽ ♍
6	16	♂ Stat. ad di.
7	17	♂ ♎ ☿ 10 p.
8	18	☿ Stat. ad ℞
9	19	
10	20	
11	21	
12	22	☽ Perigæon
13	23	
14	24	
15	25	△ ♂ ☉ 3 a.
16	26	
17	27	
18	28	☌ ☉ ☿ 4 a.
19	29	
20	30	
21	1	
22	2	
23	3	
24	4	
25	5	☽ Apogæon
26	6	
27	7	
28	8	✱ ☿ ☿ 1 a.
29	9	
30	10	

☽ ☊

✱ ♄ ☉ 1 p.

May hath xxxi days.

New moon 7 day, 12 min. past 7 at night
First quarter 14 day at 11 beforenoon
Full moon 22 day, 59 min. past 7 in the morning
Last quarter 30 day, 42 min. past 8 in the morning.

									Sun-rising.		Sun-setting.	
1	♍	S.Phil.& Jac.	21	20	28	♒	55	4	22	7	38
2	♎	Mens. Pasch.	22	18	11	♓	47	4	21	7	39
3	♎	*Invent. Crucis*	23	16	25		5	4	19	7	41
4	♏	Monica	24	13	8	♈	51	4	17	7	43
5	♏	Algive	25	11	23		5	4	16	7	44
6	♐	John port.lat.	26	8	7	♉	45	4	14	7	46
7	♐	Stanislaus	27	6	22		43	4	12	7	48
8	♑	Rogation Sun.	28	3	7	♊	52	4	11	7	49
9	♑	Quinq;Pasch.	29	1	23		2	4	9	7	51
10	♒	Epimachus	29	58	7	♋	59	4	7	7	53
11	♒	Sun in Gem.	0	♊ 56	22		45	4	6	7	54
12	♓	Ascension-da.	1	53	7	♌	3	4	5	7	55
13	♓	Crast. Ascen.	2	51	20		58	4	4	7	56
14	♈	Boniface m.	3	48	4	♍	29	4	2	7	58
15	♉	Sun aft. Ascen.	4	46	17		38	4	1	7	59
16	♉	Term ends	5	43	0	♎	28	4	0	8	0
17	♊	Botolph	6	40	13		1	3	59	8	1
18	♊	Sexual. bish.	7	38	25		21	3	58	8	2
19	♋	Pudentiana	8	35	7	♏	31	3	57	8	3
20	♋	Ethelbert	9	32	19		36	3	56	8	4
21	♌	Godzick fast	10	30	1	♐	35	3	55	8	5
22	♍	Whitsunday	11	27	13		29	3	54	8	6
23	♎	will. *Rocheſt.*	12	24	25		21	3	53	8	7
24	♎	Joan wid.	13	21	7	♑	11	3	52	8	8
25	♏	Ember Week	14	19	18		59	3	51	8	9
26	♏	Iuſtin B. *C.*	15	16	1	♒	3	3	50	8	10
27	♐	Beda	16	13	13		10	3	49	8	11
28	♐	Jonas Ab.	17	10	25		25	3	48	8	12
29	♑	Trinity Sund.	18	7	7	♓	52	3	47	8	13
30	♑	Crast. Trin.	19	5	20		40	3	46	8	14
31	♒	Petronella	20	2	3		52	3	46	8	14

Full dreſt *Aurora* with rich beams o're ſpread,
Like an officious maid now calls from bed,
Inviting you to leave your downy reſt
And view the glorious pageant of the Eaſt,
Whoſe bright luſtre, in ſuch a fragrant morn,
Doth cauſe the Birds your duller ears to charm.

May 1681.

1	11	
2	12	☽ ☌ ♆
3	13	
4	14	☿ St. ad Dir.
5	15	
6	16	
7	17	
8	18	
9	19	☽ Perigæon.
10	20	
11	21	
12	22	
13	23	
14	24	
15	25	☽ ☍ ♋
16	26	
17	27	
18	28	
19	29	△ ♂ ☿ 1 p.
20	30	✶ ♂ ♀. ✶ ☿ ♀.
21	31	
22	1	
23	2	✶ ♄ ☿ 10 p.
24	3	☽ Apogæon.
25	4	
26	5	
27	6	✶ ♂ ♀ ☌.
28	7	♀ Stat. ad ℞.
29	8	☽ ☌ ♆.
30	9	□ ☉ ♂ 5 p.
31	10	

The month begins with winds and wet, about the new Moon clear and dry, at the Full ſhowery weather, and hot towards the end.

June Roman account.

K. Charles II. Nativity.

June hath xxx days.

New moon 6 day, 8 min. past 1 in the morning
First quarter 12 day, 54 min. past 8 at night
Full moon 20 day, 46 min. past 10 at night
Last quarter 28 day, 25 min. past 6 at night.

1	f	Pamphilus	20	59	17	♈	41	3	46	8	14
2	g	Corp. Christ.	21	56	1	♉	36	3	45	8	15
3	a	Term begins	22	53	16		6	3	45	8	15
4	b	Petroctus	23	50	1	♊	1	3	45	8	15
5	c	1 Sun. aft. Trin	24	47	16		11	3	44	8	16
6	d	Octab. Trin.	25	45	1	♋	25	3	44	8	16
7	e	Paulus	26	42	16		36	3	44	8	16
8	f	Will. B. *York*	27	39	1	♌	31	3	43	8	17
9	g	Felicianus	28	36	16		5	3	43	8	17
10	a	Margaret	29	33	0	♍	12	3	43	8	17
11	b	S. Barnabas	0	♋ 30	13		48	3	43	8	17
12	c	2 Sun. af. Tri.	1	27	27		3	3	43	8	17
13	d	Quind Trin.	2	24	9	♎	52	3	43	8	17
14	e	Basil magnus	3	21	22		21	3	43	8	17
15	f	Modestus	4	18	4	♏	35	3	43	8	17
16	g	Richard	5	15	16		38	3	44	8	16
17	a	Rudolph ab.	6	12	28		32	3	44	8	16
18	b	Mark	7	9	10	♐	24	3	44	8	16
19	c	3 sun. af. Trin.	8	6	22		15	3	45	8	15
20	d	Tres Trin.	9	3	3	♑	57	3	45	8	15
21	e	Walburg	10	1	16		2	3	45	8	15
22	f	Term ends	10	58	28		4	3	46	8	14
23	g	Paulinus	11	55	9	♒	11	3	46	8	14
24	a	S. John Bapt.	12	52	22		24	3	46	8	14
25	b	Amphibalus	13	49	4	♓	47	3	47	8	13
26	c	4 sun. af. Trin.	14	46	17		28	3	47	8	13
27	d	Levinus	15	43	0	♈	15	3	48	8	12
28	e	Leo II. Pope	16	40	13		24	3	49	8	11
29	f	S. Pet. & Paul	17	37	26		54	3	50	8	10
30	g	Com. S. Paul	18	34	10	♉	47	3	51	8	9

Sun-rising. Sun-setting.

Behold now with bright and perfumed wings
Out of the balmy East bright *Phœbus* springs,
Mounting th' *Olympick* Hill, to *Cancer* tends
And there the time o'th' bloomy Spring he ends
And now his hot and scorching beam doth fade,
The fat meadows, which into Hay are made.

June 1681.

1	11	
2	12	
3	13	
4	14	
5	15	
6	16	☽ Perigæon.
7	17	☌ ☉ ♆ 3 p.
8	18	
9	19	
10	20	
11	21	☽ cum ☊
12	22	□ ♃ ☿ 11 p.
13	23	☌ ♆ ☿ 12 p.
14	24	
15	25	
16	26	
17	27	☾☌ ☉ ♀.
18	28	☌ ☉ ☿ 4 p.
19	29	☽ Apogæon.
20	30	
21	1	☍ ♃ ♂ ☌.
22	2	
23	3	
24	4	
25	5	
26	6	☽ *cum* ♍.
27	7	☌ ♄ ☿ 8 a.
28	8	
29	9	
30	10	

High winds with thunder at the beginning. Hot weather about the middle with storms of hail, but temperate and showery toward the end.

July Roman account.

July hath xxxi days.

New moon 5 day, 42 min. past 9 beforenoon
First quarter 12 day, 41 min. past 10 beforenoon
Full moon 20 day, 19 min. past 1 afternoon
Last quarter 28 day, 26 min. past 2 in the morning.

										Sun-rising.	Sun-setting.	
1	☽	Rumwald b.	19	31	25	♂	3	3	53	8	7
2	a	Visit. Mary	20	28	9	♊	44	3	54	8	6
3	♋	5 aft. Trin.	21	25	24		41	3	55	8	5
4	c	Miricus	22	23	9	♋	46	3	56	8	4
5	d	Anselme	23	20	24		53	3	57	8	3
6	e	Sexburga	24	17	9	♌	49	3	58	8	2
7	f	Transl. Thom.	25	14	24		28	3	59	8	1
8	g	Gzambold	26	11	8	♍	45	4	0	8	0
9	a	Edilburg	27	9	22		29	4	1	7	59
10	♋	6 after Trin.	28	6	5	♎	48	4	3	7	57
11	c	Pius P. M.	29	3	18		40	4	4	7	56
12	d	Sun in Leo	0	♌ 0	1	♏	9	4	5	7	55
13	e	Anacletus	0	57	13		22	4	7	7	53
14	f	Bonaventure	1	55	25		24	4	8	7	52
15	g	Swithin B.	2	52	7	♐	12	4	10	7	50
16	a	Olmond B.	3	49	19		2	4	11	7	49
17	♋	7 after Trin.	4	46	0	♑	51	4	13	7	47
18	c	Roßna	5	44	12		44	4	15	7	45
19	d	Dog days beg.	6	41	24		45	4	17	7	43
20	e	Margaret	7	38	6	♒	55	4	19	7	41
21	f	Daniel	8	36	19		14	4	21	7	39
22	g	Mary Mag.	9	33	1	♓	54	4	22	7	38
23	a	Apollinaris	10	30	14		24	4	24	7	36
24	♋	8 after Trin.	11	28	27		15	4	26	7	34
25	c	S. James Apo.	12	25	10	♈	17	4	27	7	33
26	d	Anna	13	23	23		38	4	29	7	31
27	e	Joseph *Arim.*	14	20	7	♂	4	4	30	7	30
28	f	Celsus	15	18	20		51	4	32	7	28
29	g	Martha m.	16	15	4	♊	52	4	33	7	27
30	a	Abdon m.	17	13	19		13	4	35	7	25
31	♋	9 after Trin.	18	10	3	♋	49	4	37	7	23

Behold the ſcene is chang'd, the tables turn'd,
What *Sol* reviv'd before his heat hath burn'd,
Which makes the fields with full ripe fruit abound,
And *Ceres* head with golden ears hath crown'd,
Whoſe proudeſt rancks of ſtately corn muſt give
Their naked ſtalks, to th' reapers hook and ſithe.

July. 1681.

1	11		
2	12	✶ ♂ ☿ 5 p.	
3	13	☽ Perigæon.	
4	14		
5	15		The 5 day is Commencement Tueſday.
6	16		
7	17		
8	18	☽ *cum* ♌.	*Cambridge* Term ends the 8 day.
9	19	(♂ ♄ ☉ 8 p.	
10	20		
11	21		
12	22	♀ Stat. ad Di.	Boiſterous ſtormy weather at the beginning with thunder, ſoon after more calm, and not very hot for the ſeaſon, towards the end high winds and wet but variable.
13	23		
14	24		
15	25		
16	26		
17	27	✶ ♀ ☿ 3 p.	
18	28	☽ Apogæon.	
19	29		
20	30		
21	31		
22	1	☽ cum ♍.	Auguſt Roman account.
23	2	✶ ♃ ☿ 5 a.	
24	3		
25	4		
26	5		
27	6		
28	7		
29	8		
30	9		
31	10	☽ Perigæon.	

Auguſt hath xxxi days.

New moon 3 day, 58 min. paſt 4 afternoon
Firſt quarter 11 day, 4 min. paſt 12 in the morning
Full moon 19 day, 49 min. paſt 2 in the morning
Laſt quarter 26 day, 8 min. paſt 8 in the morning.

										Sun-riſing.		Sun-ſetting.	
1	c	Lammas	19	8	18	♋	58	4	38	7	22
2	d	Stephen M.	20	6	3	♌	21	4	39	7	20
3	e	Invent.Steph.	21	3	18		44	4	41	7	19
4	f	Dominick	22	1	2	♍	35	4	43	7	17
5	g	Martin	22	59	16		47	4	44	7	16
6	a	Eugenius	23	56	0	♎	31	4	46	7	14
7	b	10 aft. Trin.	24	54	13		56	4	48	7	12
8	c	Cyriacus	25	52	26		52	4	50	7	10
9	d	Julian	26	50	9	♏	25	4	52	7	8
10	e	Lawrence	27	47	21		38	4	54	7	6
11	f	Gilbert	28	45	3	♐	37	4	56	7	4
12	g	Clare Virg.	29	43	15		27	4	58	7	2
13	a	Sun in Virgo	0	♍ 41	27		16	5	0	7	0
14	b	11 aft. Trin.	1	39	9	♑	6	5	2	6	58
15	c	Nicodemus	2	37	21		1	5	4	6	56
16	d	Edith	3	35	3	♒	6	5	6	6	54
17	e	Lambert	4	32	15		23	5	8	6	52
18	f	Victor	5	31	27		57	5	10	6	50
19	g	Clintack	6	29	10	♓	42	5	12	6	48
20	a	Bernard	7	27	23		42	5	14	6	46
21	b	12 aft. Trin.	8	25	7	♈	1	5	16	6	44
22	c	Timothy	9	23	20		28	5	18	6	42
23	d	Zacheus faſt	10	22	3	♉	59	5	20	6	40
24	e	S. Bartholom.	11	20	17		42	5	22	6	38
25	f	Lewis King	12	18	1	♊	33	5	24	6	36
26	g	Zopherine	13	16	15		27	5	26	6	34
27	a	Ruffus	14	15	29		38	5	28	6	32
28	b	Dog days end	15	13	13	♋	56	5	30	6	30
29	c	Decol. J Bapt.	16	12	28		10	5	32	6	28
30	d	Tecla Virg.	17	10	12	♌	32	5	34	6	26
31	e	Julian	18	8	26		52	5	36	6	24

Now trees begin to yield their full ripe fruit,
And th' earth's disrob'd of her embroider'd suite,
And those rich garments which she lately wore
Are now in-carted and reserv'd for store:
Thus each plant and all creatures in their kind
Serve mortals use, and the Creators mind.

August 1681.

1	11		
2	12		
3	13		
4	14	☽ cum ☊.	
5	15		
6	16		
7	17	☌ ☍ ☿ 11 p.	Moist close hot weather at the beginning, but the heat soon abates and the air bocomes more clear, about the middle hot with thunder, windy and dry toward the end.
8	18		
9	19		
10	20		
11	21		
12	22	☿ Stat. ad Re.	
13	23	□ ♄ ♂ 7. p.	
14	24	✱ ☉ ♂ 6. p.	
15	25	✱ ☿ ☿ 8. m.	
16	26	☽ Apogæon.	
17	27		
18	28		
19	29	☽ cum ♉.	
20	30		
21	31	✱ ♄ ☿ 5. a.	
22	1		September Roman account.
23	2		
24	3		
25	4		
26	5	✱ ☉ ♃ 10. p.	
27	6		
28	7		
29	8		
30	9		
31	10	☽ Perigæon.	

September hath xxx days.

New moon 2 day, 44 min. past 2 in the morning
First quarter 9 day, 8 min. past 8 at night
Full moon 17 day, 6 min. past 4 afternoon
Last quarter 24 day, 4 min. past 1 afternoon.

1	f	Giles abbot	19	7	11	♍	1	5	38	6		22
2	g	Adaman	20	5	24		57	5	40	6		20
3	a	Euphemus	21	4	8	♎	34	5	42	6		18
4	b	14 aft. Trin.	22	3	21		52	5	44	6		16
5	c	Victorinus	23	1	4	♏	46	5	46	6		14
6	d	Magnus	24	0	17		25	5	48	6		12
7	e	Dunstan	24	59	29		36	5	50	6		10
8	f	Nat. of Mary	25	57	11	♐	38	5	52	6		8
9	g	Gorgon	26	56	23		29	5	54	6		6
10	a	Nicholas	27	55	5	♑	16	5	56	6		4
11	b	15 aft. Trin.	28	54	17		4	5	58	6		2
12	c	Eanswide	29	53	28		59	5	59	6		1
13	d	Sun in Libra	0	♎ 52	11	♒	8	6	0	6		0
14	e	Exalt. Crucis	1	51	23		25	6	2	5		58
15	f	Nicomedes	2	50	6	♓	8	6	4	5		56
16	g	Euphemia	3	49	19		10	6	6	5		54
17	a	Lambert	4	48	2	♈	32	6	8	5		52
18	b	16 aft. Trin.	5	47	16		10	6	10	5		50
19	c	Januarius	6	46	0	♉	3	6	12	5		48
20	d	Fausta Virg.	7	45	14		4	6	14	5		46
21	e	S. Matth. Emb	week	44	28		14	6	16	5		44
22	f	Maurice	9	44	12	♊	22	6	18	5		42
23	g	Eldrag	10	43	26		13	6	20	5		40
24	a	winibald	11	42	10	♋	33	6	22	5		38
25	b	17 aft. Trin.	12	42	24		37	6	24	5		36
26	c	Cyprian	13	41	8	♌	37	6	26	5		34
27	d	Cos. & Da.	14	41	22		37	6	28	5		32
28	e	Lioba	15	40	6	♍	24	6	30	5		30
29	f	S. Mich. Arch.	16	40	20		5	6	32	5		28
30	g	Jerome	17	39	3	♎	39	6	34	5		26

Sun-rising. Sun-setting.

The declining Sun now doth downward bend
From higher Heavens, and from his locks doth send
A milder flame, which makes the late mow'd field
With a Spring like face appear, and to yield
Its latter crop, and then we bid adieu
To th' Summers heat, and the Spring's verdant hue.

September 1681.

1	11	☌ ♄ ♀ 4 p.
2	12	☿ St. ad Dir.
3	13	△♃ ☌ 4 a.
4	14	
5	15	
6	16	
7	17	
8	18	
9	19	
10	20	☾ Apogæon.
11	21	
12	22	
13	23	
14	24	
15	25	☽ cum ♍.
16	26	✱ ♄ ☉ 19 p.
17	27	✱♃ ☿ 9 a.
18	28	
19	29	
20	30	
21	1	
22	2	
23	3	
24	4	✱ ☌ ☿ 3 p.
25	5	☽ Perigæon
26	6	
27	7	
28	8	☽ ☊. □☌♀.
29	9	
30	10	

Sturbridge Fair begins the 8 day.

Warm ſhowery weather at the beginning, about the middle boiſterous and windy, towards the end ſtormy and cold weather.

October Roman account.

October hath xxxi days.

New moon 1 day, 10 min past 5 afternoon
First quarter 9 day, 21 min. past 3 afternoon
Full moon 17 day, 5 min. past 2 in the morning
Last quarter 23 day, 2 min. past 8 at night
New moon 31 day, 44 min. past 6 in the morning.

1	a	Remigius	18	39	16	♎	57	6	39	5	21
2	b	18 aft. Trin.	19	38	0	♏	1	6	41	5	19
3	c	Gerrard Ab.	20	38	12		52	6	43	5	17
4	d	Francis	21	38	25		17	6	45	5	15
5	e	Placidus	22	37	7	♐	33	6	47	5	13
6	f	Fides	23	37	19		32	6	49	5	11
7	g	Mark	24	37	1	♑	24	6	50	5	10
8	a	Demetrius	25	37	13		11	6	52	5	8
9	b	19 aft. Trin.	26	37	25		1	6	54	5	6
10	c	Paulin	27	36	6	♒	55	6	56	5	4
11	d	Burchardus	28	36	19		1	6	58	5	2
12	e	Wilfride	29	36	1	♓	23	7	●	5	0
13	f	Sun in Scorp.	0	m	36	14		6	7	2	4	58
14	g	Calixtus		♏	36	27		13	7	4	4	56
15	a	Teresa	2		36	10	♈	43	7	6	4	54
16	b	20 aft. Trin.	3		37	24		25	7	8	4	52
17	c	Florence	4		37	8	♉	54	7	10	4	50
18	d	S. Luke Evan.	5		37	23		21	7	12	4	48
19	e	Ptolomy	6		37	7	♊	59	7	14	4	46
20	f	Tres Mich.	7		37	22		33	7	16	4	44
21	g	Ursula	8		38	7	♋	6	7	17	4	43
22	a	Cordula m.	9		38	21		27	7	19	4	41
23	b	21 aft. Trin.	10		38	5	♌	38	7	20	4	40
24	c	Term begins	11		39	19		28	7	22	4	38
25	d	Crispine	12		39	3	♍	10	7	24	4	36
26	e	Evaristus	13		39	16		32	7	25	4	35
27	f	Mens Mich. f.	14		40	29		44	7	27	4	33
28	g	Sim. and Jude	15		40	13	♎	1	7	29	4	31
29	a	Narcissus	16		41	25		56	7	30	4	30
30	b	22 after Trin.	17		41	8	♏	51	7	32	4	28
31	c	Foilan B. M.	18		42	21		12	7	33	4	27

Sun-rising. Sun-setting.

Trees are now uncloath'd and the earth's left bare,
All her Summer pleasures now fading are;
Thick mists and dark clouds do now all combine
To hide *Sol*'s face which doth but weakly shine,
Whose declining ray, and more languid heat
Winters prevailing cold can scarce defeat.

1	11	□ ☽ ☉ ☌ 1 p.	
2	12	△ ♄ ♂ 2 p.	
3	13	▨ ☽ ☿ 3 p.	
4	14		
5	15	☌ ☉ ☿ 9 p.	
6	16		
7	17		
8	18	☽ Apogæon.	
9	19		
10	20		
11	21		
12	22	☽ cum ♍.	
13	23	✶ ☽ ♀ 6 p.	
14	24		
15	25		
16	26		
17	27		
18	28		
19	29	▨ ♄ ☉ ☍,	
20	30	△ ☽ 17 p.	
21	31		
22	1	☽ Perigæon.	
23	2		
24	3		
25	4	☽ cum ♌.	
26	5		
27	6	✶ ♄ ♀ 14 p.	
28	7		
29	8		
30	9		
31	10		

October 1681.

Windy and wet at the beginning, soon after turbulent with snow, towards the end cold and rainy weather, and so may hold to the end.

Cambridge Term begins the 10 day, and then the *Proctours*, *Taxours* and *Scrutatours* are chosen.

November Roman account.

Magna Congregatio, or Black Assembly the 21 day.

November hath xxx days.

First quarter 8 day, 39 min. past 10 in the morning
Full moon 15 day, 9 min. past 4 afternoon
Last quarter 22 day, 51 min. past 5 in the morning
New moon 30 day, 57 min. past 12 in the morning.

										Sun-rising.		Sun-setting.	
1	D	All Saints	19	43	3	♐	32	7		35	4	25
2	E	All Souls	20	43	15		42	7		37	4	23
3	F	Craft. Anim.	21	44	27		40	7		39	4	21
4	G	Winifride	22	44	9	♑	33	7		41	4	19
5	A	Powder Plot	23	45	21		20	7		43	4	17
6	B	25 aft. Trin.	24	46	3	♒	10	7		45	4	15
7	C	Willibrod	25	47	15		2	7		47	4	13
8	D	Claudius	26	47	27		10	7		49	4	11
9	E	Theodore	27	48	9	♓	29	7		51	4	9
10	F	Erastus	28	49	22		7	7		52	4	8
11	G	Martine	29	50	5	♈	12	7		54	4	6
12	A	Mart. Mart.	0	51	18		39	7		55	4	5
13	B	24 aft. Trin.	1	52	2	♉	42	7		57	4	3
14	C	Lawrence	2	53	17		8	7		59	4	1
15	D	Leopold	3	54	1	♊	52	8		0	4	0
16	E	Edmond	4	55	16		50	8		1	3	59
17	F	Hugh	5	56	1	♋	52	8		2	3	58
18	G	Octab. Mart.	6	57	16		45	8		3	3	57
19	A	Pontion	7	58	1	♌	30	8		4	3	56
20	B	25 aft. Trin.	8	59	15		53	8		5	3	55
21	C	Presen. Mary	10	0	0	♍	7	8		6	3	54
22	D	Cecilia Virg.	11	1	13		38	8		7	3	53
23	E	Clement	12	2	26		45	8		8	3	52
24	F	Chrysogonus	13	3	10	♎	1	8		9	3	51
25	G	Quind. Mart.	14	4	22		51	8		10	3	50
26	A	Peter B. A.	15	5	5	♏	24	8		11	3	49
27	B	Advent Sund.	16	6	17		51	8		12	3	48
28	C	Term ends	17	7	0	♐	68	8		12	3	48
29	D	Saturnus	18	9	11		42	8		13	3	47
30	E	S. Andrew	19	10	24		15	8		14	3	46

The clouds do now with freezing cold congeal
Who ſend both locks of ſnow and ſtones of hail
And *Sagittarius* with's piercing dart
Doth make our tender bodies ſhrink and ſmart,
Who now with pinching cold are much annoy'd
Therefore warmer garments in time provide.

November 1681.

The Vice-chancellour lays down his Office the 3 day.

Cold now increaſes and ſome froſt may be expected, about the middle ſome ſnow, toward the end tempeſtuous but not very cold for the ſeaſon.

December Roman account.

1	11	△ ☿ ☉ 14 p.
2	12	☿ Stat. ad R.
3	13	△ ♄ ☿ 9 a.
4	14	☽ Apogæon.
5	15	
6	16	♄ Stat. ad R.
7	17	□ ☿ ♀ 5 a.
8	18	☽ cum ♍
9	19	
10	20	
11	21	
12	22	
13	23	
14	24	
15	25	
16	26	
17	27	(△♄☉ 0.
18	28	☽ Perigæon.
19	29	
20	30	
21	1	□ ♄ ♀ 7 p.
22	2	☽ cum ♋
23	3	
24	4	
25	5	
26	6	☿ Stat. ad R.
27	7	
28	8	♂ ☿ ♂ 11 p.
29	9	
30	10	

December hath xxxi days.

First quarter 8 day, 37 min. paſt 4 in the morning
Full moon 15 day, 53 min. paſt 1 in the morning
Laſt quarter 21 day, 9 min. paſt 8 at night
New moon 29 day, 27 min. paſt 8 at night.

										Sun-riſing.		Sun-ſetting.	
1	f	Daniel Biſh.	20	11	6	♍	9	8		14	3	46
2	g	Alban	21	12	18		2	8		14	3	46
3	a	Lucius K.	22	13	29		52	8		15	3	45
4	b	2 in Advent	23	15	11	♎	47	8		15	3	45
5	c	Sabbas	24	16	23		43	8		15	3	45
6	d	Nicholas b.	25	17	5	♐	45	8		16	3	44
7	e	Ambroſe C.	26	18	18		4	8		16	3	44
8	f	Concep. Mary	27	20	0	♑	29	8		16	3	44
9	g	Leocadia	28	21	13		38	8		17	3	43
10	a	Melchiades	29	22	27		1	8		17	3	43
11	b	3 in Advent	0	♍ 23	10	♒	54	8		17	3	43
12	c	Nemethius	1	25	25		14	8		17	3	43
13	d	Iulia	2	26	9	♓	59	8		17	3	43
14	e	Ember week	3	27	25		3	8		17	3	43
15	f	Hilda Abbeſs	4	29	10	♋	16	8		17	3	43
16	g	O Sapientia	5	30	25		27	8		16	3	44
17	a	Ananias	6	31	10	♌	33	8		16	3	44
18	b	4 ſun. in Adv.	7	33	25		24	8		16	3	44
19	c	Nemeſius	8	34	10	♍	14	8		15	3	45
20	d	Julianus faſt	9	35	23		21	8		15	3	45
21	e	S. Thomas	10	36	6	♎	49	8		15	3	45
22	f	Theodoſius	11	38	19		51	8		14	3	46
23	g	Victoria	12	39	2	♏	32	8		14	3	46
24	a	Ad. & Ev. faſt	13	40	14		59	8		13	3	47
25	b	Chriſt's birth	14	42	27		8	8		12	3	48
26	c	S. Stephen	15	43	9	♐	12	8		11	3	49
27	d	S. John	16	44	21		12	8		10	3	50
28	e	Innocents	17	45	3	♑	5	8		9	3	51
29	f	Tho. Becket	18	47	14		56	8		8	3	52
30	g	Euſtachius	19	48	26		48	8		7	3	53
31	a	Silveſter	20	49	8	♒	42	8		6	3	54

Scarce can *Phœbus* lift his glittering eye
O're our Hemiſphere, but ſoon you'le eſpy
His radiant beams ſetting in the weſt,
Which makes us in his abſence much diſtreſs'd
But ſeeing he's ſo niggard of his raies
Let's keep good fires at home theſe Holy-days.

December 1681.

1	11	△ ♍ ♀ 8 a.
2	12	☽ Apogæon
3	13	
4	14	✳ ♂ ♀ ☌.
5	15	
6	16	☽ ☋.
7	17	
8	18	
9	19	
10	20	
11	21	
12	22	
13	23	
14	24	
15	25	△ ♄ ♀ 2 a.
16	26	☽ Perigæor.
17	27	
18	28	☿ Stat. ad Di.
19	29	☽ ☊.
20	30	
21	31	
22	1	
23	2	
24	3	
25	4	
26	5	♂ ☉ ♍ 11 a.
27	6	
28	7	
29	8	
30	9	☽ Apogæon.
31	10	

Not very cold for the ſeaſon, good weather the former part of this month, t: ward the end ſnow and cold cloudy weather, with ſhoft and high winds to the end.

Cambridge Term ends the 13 day.

January Roman account 1682.

A Regal Table from *Egbert* (of whom it is thought *England* took its name) to our Sovereign Lord King *Charles* the second.

Kings names.	Reig. bega. A. C.	Reign. years.	Kings names.	Reig. bega. A. C.	Reign. years.
Egbert	818	18	Henry 2	1154	35
Ethelwolf	836	21	Richard 1	1189	10
Ethelbald	857	1	John	1199	17
Ethelbert	858	5	Henry 3	1216	56
Ethelfred	863	10	Edward 1	1272	35
Alfred	873	27	Edward 2	1307	19
Edward 1 sax.	900	24	Edward 3	1326	51
Ethelstan	924	16	Richard 2	1377	22
Edmond 1.	940	6	*Line of Lanc.*		
Edred	946	9	Henry 4	1399	13
Edwyn	955	4	Henry 5	1413	9
Edgar	959	20	Henry 6	1422	38
Edward 2 sax.	979	27	*Line of York.*		
Ethelred	982	34	Edward 4	1460	23
Edmond 2	1016	1	Edward 5	1483	0
Danish Line			Richard 3	1483	2
Canutus	1017	20	*Families united*		
Harold 1.	1037	3	Henry 7	1485	24
Hardicanutus	1040	2	Henry 8	1508	40
Edward conf.	1042	23	Edward 6	1547	6
Harold 2	1065	2	Q. Mary	1553	5
Norman Line			Q. Elizabeth	1558	44
Wil. Conquer.	1066	20	King James	1602	22
Wil. Rufus.	1087	13	Charls 1	1625	24
Henry 1	1100	35	Charls 2	1648	33
Stephen	1135	19	whom God		
Saxon Line restored			preserve.		

This Table needs no explanation, for find but the Kings name in the 1, or 4 Column, and in the 2 or 5 you have the year of Christ in which he began his Reign, and in the 3 or 6 Column the years he Reigned.

SWAN

The second part of this ALMANACK for the year of our LORD GOD 1681.

Wherein is contained a Figure of the Heavens at the Suns entrance into *Aries*, the Eclipses, with some Observations on them, a Table of the Sun's Altitude for every hour, a brief Concordance of Years with some things memorable since the beginning of the Reign of Queen *Elizabeth*, with other Tables as delightfull as usefull.

Magna opera Domini: Exquisita in omnes Voluntates ejus.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the University, 1681.

A Table of the hour and min. of the Seven Stars coming to the South for every third day of the year 1681. fitted to the meridian of *Cambridge*, and may indifferently serve any other Place in *ENGLAND*.

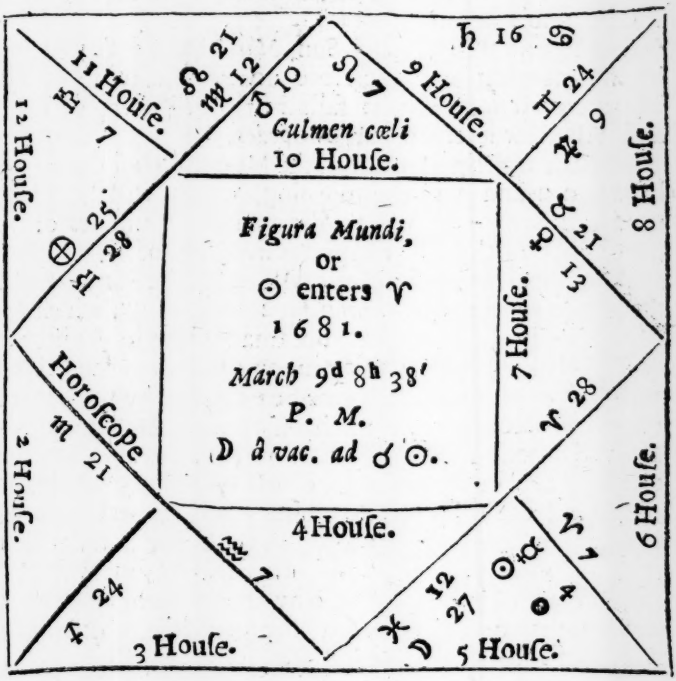
Mon.	D.	h.	m	D.	Mon.	Mon.	D.	h.	m.	D.	Mon.
Jan.	1	7A	53	2	*July*	*Apr.*	1	2A	7	3	*Octo.*
	4	7	41	5			4	1	55	6	
	7	7	28	8			7	1	44	9	
	10	7	15	11			10	1	33	12	
	13	7	2	14			13	1	22	15	
	16	6	50	17			16	1	11	18	
	19	6	36	20			19	1	0	21	
	22	6	23	23			22	0	48	24	
	25	6	10	26			25	0	36	27	
	28	5	57	29			28	0	24	30	
	31	5	44	1	*Aug.*	*May*	1	0	13	2	*Nov.*
Feb.	4	5	33	4			4	0	1	5	
	7	5	20	7			7	11B	49	8	
	10	5	10	10			10	11	37	11	
	13	4	59	13			13	11	25	14	
	16	4	48	16			16	11	14	17	
	19	4	37	19			19	11	2	20	
	22	4	26	22			22	10	50	23	
	25	4	16	25			25	10	39	26	
	28	4	5	28			28	10	26	29	
Mar.	2	3	54	31			31	10	12	2	*Dec.*
	5	3	43	4	*Sept.*	*June*	4	9	58	5	
	8	3	32	7			7	9	44	8	
	11	3	22	10			10	9	30	11	
	14	3	12	13			13	9	18	14	
	17	3	1	16			16	9	6	17	
	20	2	51	19			19	8	52	20	
	23	2	41	22			22	8	41	23	
	26	2	30	26			25	8	30	26	
	29	2	19	30			28	8	17	29	

7 A 53 against *Jan.* 1 shews that the 7 Stars will be upon the Meridian 53 min. after 7 at night, and so A. signifies afternoon in the Months on the left hand Col. but in the Months on the right hand Column, as *July*, *Aug. Sept.* it signifies *ante* or beforenoon.

The

THE Sun enters *Aries* this Year *March* the 9, 38 minutes past 8 at night, at which time the Figure of the Heavens will appear as followeth.

A Figure of the Heavens at the Suns entrance into *Aries*



The time of the Sun's entrance into the other Cardinal Signs is as followeth.

He enters Cancer June 10, 48 min. past 9 at night.
He enters Libra Septemb. 12, 51 min. past 2 afternoon.
He enters ♑ Decemb. 11, 57 min. past 2 in the morn.

Of the Eclipſes this Year.

FOUR times this Year will the Heavenly Luminaries be Eclipſed, *viz.* twice the Sun, and twice the Moon, but we in theſe *Britiſh Iſlands* ſhall behold onely the latter of the Moon, all the other being inviſible to us.

The firſt Eclipſe in order will be of the Moon, *February* the 22 day, in 15 deg. of ♍, about 11 beforenoon, and it will be viſible to our *Antipodes*.

The ſecond will be of the Sun, *March* the 10 day at one in the morning, and therefore not viſible to us in this Northern Hemiſphere, it falls in the beginning of *Aries*, and will ſhew it ſelf to our *Antipodes*.

The third Eclipſe will be of the Moon, *Auguſt* the 19 day between 2 and 3 in the morning, which will be viſible to us, and we may ſee 10 digits and 35 minutes of the Moons body Eclipſed, it happens in 6 deg. of ♓.

The fourth and laſt Eclipſe will be of the Sun, *Septemb.* the 2 day, at 3 in the morning, in 20 deg. of ♍, which will be inconſpicuous to us; and but ſmall where moſt viſible.

Thus having ſhewed how many, and when the Eclipſes will happen, it may perchance be expected by ſome that I ſhould proceed to ſay ſomething of their Effects; in anſwer to whom I may ſay that the Eclipſes are but ſuch things as are in the ordinary courſe of Nature, which, by obſerving the rules of Art built upon natural grounds, may as certainly be foretold, as the riſing and ſetting of the Sun, they then being no other then ordinary and natural events, I ſee no reaſon why they ſhould be eſteemed prodigious, or to have any ſtranger effects then other things of like nature, the Eclipſe of the Moon being onely the interception of the Light of the Sun by the body of the Earth, and the Eclipſe of the Sun, the deprivation of his light by the intervention of the Moon between it and the Earth; upon which ground to predict ſome natural effects may indeed ſeem not without ſome colour of reaſon, the Sun and the Moon, and the reſt of the Planets and fixed Stars being influential according to the vigo

o

of their radiations, and light, by which they are ſaid to work upon elementary Subjects, as to change the diſpoſition of the Air according to the predominancy of their raies, and mixt qualities, and ſo from a concatenation of Cauſes, Aſtrologers by foretelling of great and tempeſtuous winds, they prædict Ship-wracks, and the like diſaſters, and by corrupted Air, peſtilential diſeaſes; and when heat is predominant, wars, and broilings amongſt Men, becauſe Man's body being paſſive to the elementary virtues, is excited to ſuch and ſuch actions, but yet nevertheleſs his Will remains free, and ſits as Queen Regent over all his Actions, and therefore from ſuch grounds to foretell any particular Effects, cannot but be very uncertain and fallible, conſidering alſo the general and mixt influence of the Heavenly bodies, and the overruling and inſcrutable providence of the Great Creator, which is chiefly to be eyed and heeded.

The moſt material Aſpects, Characters and Qualities of the Planets.

☌ Conjunction	Sig.	gra.	♄ *Saturn*	Cold and dry
⚹ Sextile is	2	60	♃ *Jupiter*	Hot and moiſt
□ Quartile	3	90	♂ *Mars*	Hot and dry
△ Trine	4	120	☉ *Sol*	Hot dry temperate
☍ Oppoſition.	5	180	♀ *Venus*	Cold & moiſt temp.
☊ Dragons h.			☿ *Mercury*	Cold and dry variable
☋ Dragons tail			☽ *Luna*	Cold and moiſt.

Of the Zones and diverſity of Seaſons and Shadows in divers Parts of the Earth.

THE Heaven is divided into 5 Parts, and the Earth accordingly, which parts are called Zones, *viz.* two Temperate Zones, one Torrid Zone, and two Freezing Zones.

The Torrid Zone is ſo called becauſe of the extream heat of the Sun there, it is in breadth 47 degr. 3 min. or 2823 *Italian* miles; through the middle whereof paſſeth the Equinoctial, in this Zone they have two Summers, and two Winters, that is when the Sun is in ♈ and ♎ are their Summers, and when he is in ♋ and ♑ are their Winters, which are neither of them ſo cold as ours, though their Summers be far hotter, by reaſon of the perpendicularity of the beams of the Sun, the Inhabitants of this Zone are ſuch as dwell in the Iſlands of S. *Thomas*, *New Guinea*, *India Æthiopia*, &c. theſe People are called *Amphiſcii*, becauſe they caſt their ſhadow on both ſides, that is when the Sun is in ♋ their ſhadow is Southward, and when in ♑ their ſhadow is Northward.

The Temperate Zones begin at the Tropicks, and end at the Polar Circles, containing in Latitude 42 deg. 57 m. or 2577 miles; in this Northern Zone lie all the moſt habitable Places of the Earth, as all *Europe*, part of *Aſia*, a great part of the North part of *America*, &c. but in this Zone Southward are but few known Places, ſome of which are the Promontory of *Good Hope*, *Terra Magellanica*, &c. the Inhabitants of theſe Zones are called *Heteroſcii*, becauſe they caſt their ſhadow at noon on one ſide, that is always North to them that inhabit the Northern Zone, and South to them that dwell in the Southern Zone, and they have but one Winter and one Summer in either of theſe Temperate Zones.

The Frigid Zones begin at the Polar Circles and extend to the Poles, whoſe breadth is 1411 miles, in this Zone all the Stars which are between the Tropick of ♋ and the Pole are continually above their Horizon and ſet not, and when the Sun is in the beginning of ♋ their day is 24 hours long, and when he is in ♑ their night is the ſame without day, and if it be under the Pole their night is 6 months long and their day the ſame, the Places that lie in this Northern Zone are part of *Norweigh*, *Groenland*, &c.

A Table of the Sun's Altitude for every hour, for the Latitude of 52 degrees.

Before noon / After noon.	12	11 / 1	10 / 2	9 / 3	8 / 4	7 / 5	6 / 6	5 / 7	4 / 8
S. d S. d.	d. m.	d. m.	d. m.	d. m.	d. m.	d. m.	d. m.	d. m.	d. m.
♊ 30 ♋ 0	61 30	59 55	53 24	45 29	36 36	27 23	18 17	9 39	1 4
♊ 20 ♋ 10	61 7	58 53	53 5	45 11	36 18	27 6	18 0	9 21	1 2
♊ 10 ♋ 20	60 0	57 50	52 7	44 18	35 28	26 16	17 9	8 27	0 3
♊ 0 ♌ 0	58 12	56 6	50 33	42 52	34 6	24 55	15 46	7 1	
♉ 20 ♌ 10	55 47	53 47	48 25	40 54	32 14	23 5	13 54	5 5	
♉ 10 ♌ 20	52 52	50 58	45 49	38 30	29 57	20 50	11 38	2 44	
♉ 0 ♍ 0	49 31	47 43	42 48	35 42	27 18	18 15	9 2	0 3	
♈ 20 ♍ 10	45 51	44 9	39 27	32 35	24 20	15 22	6 9		
♈ 10 ♍ 20	42 0	40 23	35 54	29 16	21 12	12 20	3 8		
♈ 0 ♎ 0	38 0	36 29	32 13	25 48	17 56	9 10			
♓ 20 ♎ 10	34 2	32 36	28 31	22 19	14 38	6 0			
♓ 10 ♎ 20	30 11	28 49	24 54	18 55	11 24	2 54			
♓ 0 ♏ 0	26 30	25 12	21 27	15 39	8 19				
♒ 20 ♏ 10	23 9	21 55	18 17	12 39	5 30				
♒ 10 ♏ 20	22 14	19 2	5 31	10 2	3 29				
♒ 0 ♐ 0	17 49	16 38	13 14	7 52	0 59				
♑ 20 ♐ 10	16 0	14 52	11 31	6 15					
♑ 10 ♐ 20	14 53	13 46	10 28	5 15					
♑ 0 ♐ 30	14 30	13 23	10 6	4 54					

The Use and Explanation of this Table.

THis Table being a table of the Sun's Altitude for every hour in the Latitude of 52 degrees, is calculated chiefly for the finding of the hour of the Day by having the Altitude of the Sun. On the head of the Table are all the hours both before noon and after noon, and in the two first Columns at the left hand are all the Signs of the Zodiack, beginning at the bottom with ♑, where you shall find ♑ 0 which shews the beginning of

that Sign, then ♍ 10 ſhews the 10th deg. thereof, and ♍ 20 the 20 degree, and ſo on for the reſt; now to find the hour of the day, do thus, firſt get the Sun's Altitude by a Quadrant or any other means, then look in the Calendar what Sign and degree the Sun is in, and finding the Sign and degree in the left hand Columns, and the Altitude right againſt the ſame, right over it, on the head of the Table, you ſhall ſee the hour; as for example ſuppoſe that on the 20 day of *Auguſt* the Altitude is found to be 29 deg 57 min. the Sun is then in 10 deg. of ♉, now therefore look 10 deg. of ♉ in the left hand Columns, which anſwers to 20 deg. of ♌, and the Altitude right againſt it, being 29 deg. 57 min. and over the Altitude on the top of the Table you will find 8 and 4, which ſhews that it is either 8 beforenoon or 4 afternoon according as you make your obſervation, and ſo for the reſt.

To find the Altitude of the Sun by the Shadow of any perpendicular Gnomon or object.

If the Altitude of the Sun be.		the projected Shadow is		times as much as the Gnomon or obj.		the projected Shadow is		times leſs then the Gnomon or object.
D.	m.							
1	7	50		45	0	equal		
2	5	20		51	20	5 to 4		
5	42	10		53	7	4 to 3		
7	7	8		56	19	3 to 2		
9	27	6		59	2	5 to 3		
11	18	5		63	26	2		
14	2	4		71	34	3		
18	26	3		75	58	4		
26	34	2		78	42	5		
30	58	5 to 3		80	33	6		
33	41	3 to 2		82	53	8		
36	52	4 to 3		84	18	10		
38	40	5 to 4		87	10	20		
45	00	equal		88	54	50		

A Table ſhewing the Bearing, Diſtance, Longeſt day, and difference of Meridians, of ſome principal Places in the World from the City of *LONDON*.

The Names of the Places.	The way they bear.	diſt. in miles.	Lor g. day.	Differ. merid.
			h. m.	h. m.
Amſterdam	E. by N.	266	16 40	0 28 a
Athens	ſ. e. by e.	1624	14 40	0 56 a
Alexandria in Æg.	ſ. e. by e.	2169	14 0	2 42 a
Antwerp	eaſt *ferè*	248	16 28	0 24 a
Antioch	e. ſouth e.	2319	14 26	3 16 a
Barwick	north *ferè*	267	17 24	0 2 a
Bayone in Galaza	ſ. w. by ſ.	800	15 8	0 55 ſ.
Bibylon	e. ſouth e.	2724	14 25	3 56 a
Burdeux in France	ſouth *ferè*	360	15 25	0 8 ſ.
Brydges in Fland.	eaſt	162	16 16	0 16 a
Carlile	n. n. weſt	224	17 0	0 9 ſ.
Carnea point in Sco.	north	628	19 25	0 0
Civil in Andelazia	ſ. by weſt	950	14 40	0 52 ſ.
Calice in France	e. by ſou.	86	16 25	0 9 a
Cleve	eaſt	303	16 30	0 39 a
Conſtantinople	e. ſouth e.	1547	15 15	2 24 a
Candy Iſland	ſ. e. by ſ.	1791	15 25	2 20 a
Dover	e. by ſou.	49	16 25	0 5 a
Dublin in Ireland	n. w. by w.	296	17 15	0 29 ſ.
Dantzick	e. north e.	961	17 5	1 44 a
Edenburgh in Scot.	north	328	17 40	0 0
Elſon Noſe in Den.	north eaſt	577	18 0	0 50 a
Epheſus	e. ſouth e.	1808	14 40	2 30 a
Francford	eaſt *ferè*	448	16 15	0 47 a
Florence	ſouth eaſt	802	15 10	0 57 a
Geiten in China	e. by ſou.	7312	13 35	11 12 ſ.
Hamburgh	e. north e.	538	18 0	0 56 a
Iſeland	n. n. weſt	930	21 44	0 52 ſ.
Jeruſalem	ſ. e. by e.	2352	14 8	3 3 a

Iſland of Japan	E. by ſou.	7919	14	10	11	52 a
Iſland of Jamica.	W. ſou.w.	5332	13	6	6	59 ſ.
Lisbon in Portug.	ſou. ſo. w.	985	14	45	1	0 ſ.
Lake of Solone	ſ. e. by e.	2404	14	4	3	8 a
The Iſle of Man.	nor. n. w.	358	17	30	0	20 ſ.
Middleburg.	eaſt.	205	16	30	0	20 a
Mentz in Germ.	eaſt.	420	16	25	0	45 a
Millain	ſouth eaſt	645	15	22	0	48 a
Muſcovia in Ruſſia	eaſt by n.	1747	17	40	3	16 a
Moroco in Barb.	ſou. ſo. w.	1449	14	0	0	59 ſ.
Mexico	w. by ſou.	6844	13	20	9	28 ſ.
Naples	ſ. e. by e.	1051	14	50	1	16 a
Nice	e. ſouth e.	1668	15	5	2	32 a
Ninive	e. ſouth e.	2635	14	30	3	52 a
Oxford	nort. weſt	47	16	28	0	5 ſ.
Paris in France	ſo. ſo. eaſt	215	15	57	0	13 ſ.
Prague in Bohem.	eaſt *ferè*	700	16	15	1	14 a
Philadelphia	e. ſouth e.	1816	14	44	2	36 a
Quinzay	e. by ſou.	7272	13	35	11	28 a
Rome	ſ. e. by e.	887	15	4	1	7 a
Red Sea	ſo. e. by e.	2336	13	56	2	54 a
Spiers	e. by ſout.	430	16	2	0	46 a
Tolledo in Spain	ſout. weſt	934	14	36	0	36 ſ.
Troy	e. ſouth e.	1605	15	0	2	24 a
Venice	e. ſouth e.	744	15	28	1	3 a
York	North	150	17	0	0	0

☞ The uſe of this Table is plain and eaſie, for right againſt the name of the Place is the way it bears, and the diſtance, longeſt day, and difference of meridians from *London*, as for Example, againſt *Jeruſalem* you may ſee the way it bears from *London* is S. E by E. its diſtance 2352 miles, the longeſt day there 14 hours, 8 min. the difference of meridians 3 hours, 3 min. a. which ſhews that to find the hour there, we muſt add 3 hours, and 3 min. to our time, as ſuppoſe it be 2 a clock here, add 3 hours, 3 min. and that makes 5 hours and 3 min. there:

and

and when you find S. ſet with the difference of meridians, it ſhews that ſo much time is to be ſubſtracted from the time at *London*, as againſt the Iſland of *Famica*, you will find the difference of meridians 6 hours, 59 min. S. now ſuppoſe it be 12 a clock here, and you deſire to know the time of the day there, take 6 hours, 59 min. out of 12 and there remains 5 hours and 1 min. which ſhews that it is but 5 a clock in the morning there.

Of Twilight and how to find the quantity thereof by a Table.

Crepuſculum or Twilight, ſeems to come, *à luce crepera, ſeu dubia*, becauſe the light is doubtfull, and begins to appear in the morning by the acceſs of the light of the Sun, and diffuſed orbicular reflection of his beams; and in the evening it ends by the receſs of the Suns light from the weſt Horizon, and that is when he is 18 deg. below the Horizon, as in like manner the day breaks in the morning when the Sun is within 18 deg of the Horizon; now how long Twilight is before Sun-riſing, or after his ſetting, at any time of the year, is ſhewed by this Table, and that for ſeveral Latitudes, which is thus, on the head of the Table is the elevation of the Pole from 46 deg. to 56, under which are the quantities of twilight, right againſt the beginning of each Sign, in the left hand Col. as for example, if you deſire the quantity of twil. when the Sun is in the beginning of ♈ or ♎ in Lat. of 52 deg. look ♈ & ♎ in the left hand Col. againſt which under the Lat. of 52 deg. you ſhall find 1 hour 54 min. the quantity of twilight deſired.

	The Elevation of the Pole.											
	46		48		50		52		54		56	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
♋	2	36			All Twilight.							
♊ ♌	2	23	2	35								
♉ ♍	1	58	2	1	2	8	2	17	2	37	2	55
♈ ♎	1	43	1	45	1	49	1	54	2	1	2	9
♓ ♏	1	43	1	46	1	50	1	55	2	2	2	8
♒ ♐	1	48	1	53	2	59	2	6	2	14	2	22
♑	1	55	2	2	2	7	2	13	2	19	2	27

A Table ſhewing the time of the Moons coming to the South, and quantity of her ſhining for the ready finding the hour of the night.

The Moons age.		Moons ſouthing and ſhin.		Moons age for her ſett.	
1	16	0	48	1	29
2	17	1	36	2	28
3	18	2	24	3	27
4	19	3	12	4	26
5	20	4	0	5	25
6	21	5	48	6	24
7	22	5	36	7	23
8	23	6	24	8	22
9	24	7	12	9	21
10	25	8	0	10	20
11	26	8	48	11	19
12	27	9	36	12	18
13	28	10	24	13	17
14	29	11	12	14	16
15	30	12	0	15	

To find the hour of the night by the Moon ſhining upon a Sun-Dial.

HAving the age of the Moon, and ſo her coming to the South by this Table, add the time of her ſouthing, and the ſhadow of the Moon upon the Dial together, and that is the time of the night if the ſumm be under 12, but if it be above 12 the overplus is the hour: as for example, the Moon being 9 days old, is South, or upon the Meridian at 12 min. paſt 7, now ſuppoſe the ſhadow be upon the hour line of 3, then add theſe two together, *viz.* 7 hours and 12 min. and 3 hours, and their ſumm will be 10 hours, 12 min. which is the hour of the night ſought.

To

To find the Moons riſing and ſetting.

ADD the time of her ſhining all her increaſe, that is till ſhe is 15 days old, to the time of the Sun's riſing or ſetting and the ſumm will give you the Moons riſing or ſetting, but after the full, ſubtract the quantity of her ſhining from the Sun's riſing and ſetting, and you ſhall have the Moons riſing or ſetting, as for Example the Moon being 11 days old, ſhines 8 hours, 48 min. by this Table, now ſuppoſe the Sun riſes then at 5 a clock, add 8 hours, 48 min. and 5 hours together and the ſumm will be 13 hours 48 min. caſt away 12 and there remains 1 hour 48 min. which ſhews that the Moon riſes at 1 afternoon and 48 min. paſt, and ſo is to be done for her ſetting, onely you muſt remember to add inſtead of ſubtracting when ſhe decreaſes, and this will ſerve for common uſe, being according to the mean motion of the Moon, without reſpect to her Latitude, which will make ſome difference from her true riſing and ſetting.

A brief Concordance of Years with ſome memorable things ſince the beginning of the Reign of Queen *Elizabeth*

Anno Dom.	*An. Re.*	ſince	
1558	1	123	A Parliament called.
1559	2	122	Monaſteries ſuppreſſed.
1560	3	121	Wars with *Scots* and *French*.
1561	4	120	*Paul's* Church-ſteeple burnt.
1562	5	119	Tempeſt and Earthquake.
1563	6	118	20000 die of the Plague in *London*.
1564	7	117	*Thames* frozen.
1565	8	116	Peace with *France*.
1566	9	115	King *James* born.
1567	10	114	Royal Exchange finiſhed.
1568	11	113	A dry Summer.
1569	12	112	Rebellion in the North.
1570	13	111	Wars with *Scotland*.
1571	14	110	Earthquake in *Herefordſhire*.

Maſſacre

1572	15	109	Maſſacre in *France*.
1573	16	108	Earl of *Eſſex* goes to *Ireland*.
1574	17	107	Counterfeit Spirits puniſhed.
1575	18	106	An Earth-quake.
1576	19	105	*Forbiſher*'s North Voyage.
1577	20	104	Infection at *Oxford* Aſſizes.
1578	21	103	A great Snow.
1579	22	102	A curious Lock Smith.
1580	23	101	Great Earthquake and blazing Star.
1581	24	100	Three *Jeſuites* executed.
1582	25	99	New Calendar began.
1583	26	98	Earthquake in *Dorcetſhire*.
1584	27	97	*Nantwich* burnt.
1585	28	96	Tobacco firſt uſed in *England*.
1586	29	95	*Ludgate* new built.
1587	30	94	*Blackwell* Hall new built.
1588	31	93	*Spains* Armado overthrown.
1589	32	92	Duke of *Guiſe* murthered.
1590	33	91	Blaſphemous *Hacket* hanged.
1591	34	90	*Eaſt-India* Company began.
1592	35	89	The *Thames* almoſt dry.
1593	36	88	10635 died of the Plague in *London*.
1594	37	87	Great Tempeſt.
1595	38	86	Scarcity of Corn.
1596	39	85	Earl of *Eſſex* takes *Cadiz* in *Spain*.
1597	40	84	Wheat 13 ſhillings a Buſhel.
1598	41	83	Great Tempeſts and Froſts.
1599	42	82	Earl of *Eſſex* goes to *Ireland*.
1600	43	81	Ambaſſadors from *Ruſſia* & *Barbary*.
1601	44	80	Earl of *Eſſex* beheaded.
1602	45	79	Queen *Elizabeth* dieth at *Richmond*.
1602			King *James* began March 24. 1602.
1603	1	78	30578 die of the Plague in *London*.
1604	2	77	Peace with *Spain*.
1605	3	76	Powder Treaſon.
1606	4	75	K. of *Denmark* came to *England*.
1607	5	74	*Moore-fields* beautified.
1608	6	73	Oath of Allegiance.

New

1609	7	72	New Exchange in the *Strand.*
1610	8	71	King of *France* murthered.
1611	9	70	*Bartholomew Legat* an *Arrian* burnt.
1612	10	69	Lady *Elizabeth* married. Pr. *Henry* dies.
1613	11	68	Artillery Company revived.
1614	12	67	*Middleton*'s Water.
1615	13	66	*Smithfield* Paved.
1616	14	65	*Charles* Created Prince of *Wales.*
1617	15	64	*Haidock* the Sleeping Preacher.
1618	16	63	S[r] *Walter Rawleigh* decollated.
1619	17	62	Queen *Anne* dies.
1620	18	61	King of *Bohemia* overthrown.
1621	19	60	*Philip* 3 King of *Spain* dies, *Philip* 4 ſuc.
1622	20	59	Prince *Charles* goes into *Spain.*
1623	21	58	Black Friers downfall.
1624	22	57	The bloudy Cruelty at *Amboyna.*
1625	K. *Charles* I. beg. Mar. 27. 54265 die, Pla. 35417.		
1626	2	55	War with *Spain* and *France.*
1627	3	54	Iſle of *Rhees* Voyage.
1628	4	53	Duke of *Buckingham* Stabb'd.
1629	5	52	*New England* planted.
1630	6	51	King *Charles* II. born May 29.
1631	7	50	Battle at *Lypſick. Tilly* ſlain.
1632	8	49	*London* bridge burnt.
1633	9	48	*James* Duke of *York* born Octob. 14.
1634	10	47	Ship-money firſt Taxed.
1635	11	46	Old *Parr* died, aged 160.
1636	12	45	*Dutch* take the *Spaniſh* Silver Fleet.
1637	13	44	*Engliſh* Liturgy ſent into *Scotland.*
1638	14	43	The *Scots* National Covenant.
1639	15	42	*Dutch* beat the *Spaniſh* at *Dover.*
1640	16	41	The Long Parliament begins Novem. 3.
1641	17	40	Earl of *Strafford* beheaded.
1642	18	39	*Edge-Hill* Fight.
1643	19	38	*Newberry* firſt Fight.
1644	20	37	*Newbery* ſecond Fight.
1645	21	36	Arch Biſhop of *Canterbury* beheaded.

Lord

1646	22	35	Lord *Fairfax* takes *Oxford*.
1647	23	34	King taken by Parliament and Army.
1648	24	33	King traiterouſly beheaded. K. *Charles* the Second begins *Jan.* 30.
1649	1	32	Powder-blow in Tower-ſtreet.
1650	2	31	King *Charles* II. Crowned in *Scotland*.
1651	3	30	*Worceſter* Fight. *Love* beheaded.
1652	4	29	Wars with *Holland*.
1653	5	28	Old and New Pa liament diſſolved.
1654	6	27	Peace with *Holland*.
1655	7	26	Wars with *Spain*.
1656	8	25	Two Tides in 3 hours, Octob. 3.
1657	9	24	*Mardike* taken by the *Engliſh* & *French*.
1658	10	23	*Cromwell* died.
1659	11	22	S[r] *George Booth*, & Gen. *Monk* for the King
1660	12	21	King *Charles* II. joyfully reſtored.
1661	13	20	King *Charles* II. Crowned, April 23.
1662	14	19	Married to Queen *Katherine*.
1663	15	18	King and Queen at *Windſor*.
1664	16	17	Three blazing Stars ſeen.
1665	17	16	97351 die, of the Plague 68586.
1666	18	15	13200 Houſes burnt in *London*.
1667	19	14	The *Dutch* Hoſtile Treaty.
1667	19	14	E. of *Clarindon* baniſh. *Abr. Cowley* died.
1669	21	12	Prince of *Tuſcany* arrived in *England*.
1670	22	11	Dutcheſs of *Orleance* died.
1671	23	10	Dutch. of *York*, & E. of *Mancheſter* died.
1672	24	9	War proclaimed with *Holland* by *Engliſh* and *French*. Earl of *Sandwich* ſlain.
1673	25	8	S[r] *Edward Spragg* ſlain at Sea.
1676	28	5	600 Houſes burnt in *Southwark*.
1677	29	4	Prince of *Orange* married to the L. *Mary*.
1678	30	3	S[r] *Edmund-Bury Godfry* murdered.

FINIS.